

57. (New) An implant of titanium to be surgically implanted and osseointegrated with living bone comprising a threaded portion for contact with said bone, said threaded portion being substantially uniformly roughened by removing substantially all the native oxide from said titanium with aqueous hydrofluoric acid and thereafter etching the titanium surface with a mixture of aqueous sulfuric and hydrochloric acids to produce said substantially uniformly roughened threaded portion, said roughened threaded portion having an array of irregularities having peak-to-valley heights not greater than 10 microns.

58. (New) An implant of Claim 57 wherein said aqueous hydrofluoric acid has a concentration of about 15 wt % hydrofluoric acid.

59. (New) An implant of Claim 57 wherein said aqueous mixture is about two parts of 96 wt % sulfuric acid and about one part of 37 wt % hydrochloric acid.

REMARKS

Claims 11-25, 27-33, 35-49 and 51-59 remain in the application for further prosecution.

New Claims 57-59 have been added. Submitted herewith is a clean set of pending claims.

I. Rejections Under 35 U.S.C. § 112

Claims 11-21, 27-33, 35-49, and 51-56 were rejected under 35 U.S.C. § 112. More specifically, the Examiner objects to use of the term “substantially” or “substantially removed” in connection with the degree to which the native oxide layer is removed or the roughness of the